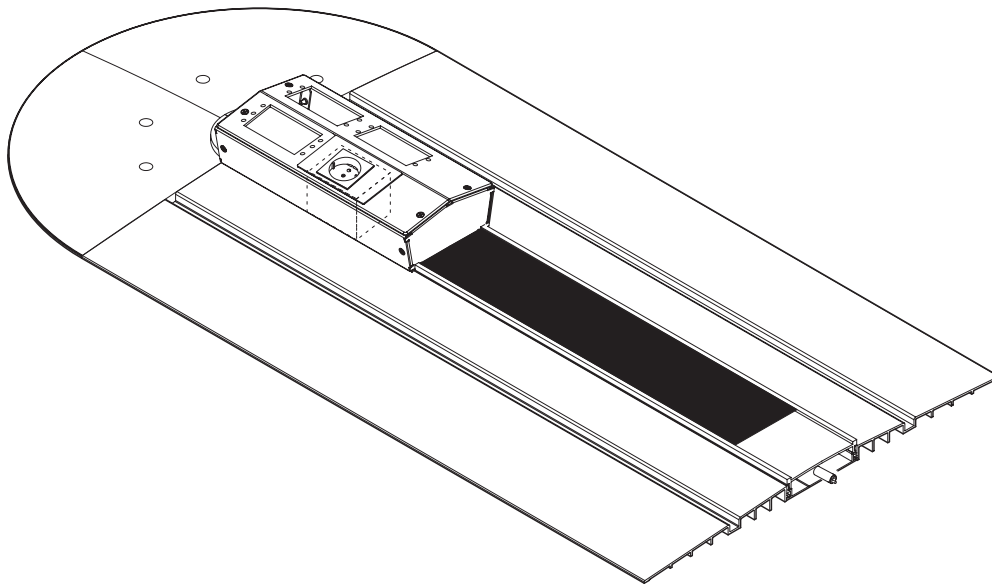


Installation Guide



AVTrac®

International/Universal Models

**Floor-mount Raceway with Modular AAP
Connectivity for A/V, Data, and Power**

Precautions

Safety Instructions • English



This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.



This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Caution

Read Instructions • Read and understand all safety and operating instructions before using the equipment.

Retain Instructions • The safety instructions should be kept for future reference.

Follow Warnings • Follow all warnings and instructions marked on the equipment or in the user information.

Avoid Attachments • Do not use tools or attachments that are not recommended by the equipment manufacturer because they may be hazardous.

Consignes de Sécurité • Français



Ce symbole sert à avertir l'utilisateur que la documentation fournie avec le matériel contient des instructions importantes concernant l'exploitation et la maintenance (réparation).



Ce symbole sert à avertir l'utilisateur de la présence dans le boîtier de l'appareil de tensions dangereuses non isolées posant des risques d'électrocution.

Attention

Lire les instructions • Prendre connaissance de toutes les consignes de sécurité et d'exploitation avant d'utiliser le matériel.

Conservé les instructions • Ranger les consignes de sécurité afin de pouvoir les consulter à l'avenir.

Respecter les avertissements • Observer tous les avertissements et consignes marqués sur le matériel ou présentés dans la documentation utilisateur.

Éviter les pièces de fixation • Ne pas utiliser de pièces de fixation ni d'outils non recommandés par le fabricant du matériel car cela risquerait de poser certains dangers.

Sicherheitsanleitungen • Deutsch



Dieses Symbol soll dem Benutzer in der im Lieferumfang enthaltenen Dokumentation besonders wichtige Hinweise zur Bedienung und Wartung (Instandhaltung) geben.



Dieses Symbol soll den Benutzer darauf aufmerksam machen, daß im Inneren des Gehäuses dieses Produktes gefährliche Spannungen, die nicht isoliert sind und die einen elektrischen Schock verursachen können, herrschen.

Achtung

Lesen der Anleitungen • Bevor Sie das Gerät zum ersten Mal verwenden, sollten Sie alle Sicherheits- und Bedienungsanleitungen genau durchlesen und verstehen.

Aufbewahren der Anleitungen • Die Hinweise zur elektrischen Sicherheit des Produktes sollten Sie aufbewahren, damit Sie im Bedarfsfall darauf zurückgreifen können.

Befolgen der Warnhinweise • Befolgen Sie alle Warnhinweise und Anleitungen auf dem Gerät oder in der Benutzerdokumentation.

Keine Zusatzgeräte • Verwenden Sie keine Werkzeuge oder Zusatzgeräte, die nicht ausdrücklich vom Hersteller empfohlen wurden, da diese eine Gefahrenquelle darstellen können.

Instrucciones de seguridad • Español



Este símbolo se utiliza para advertir al usuario sobre instrucciones importantes de operación y mantenimiento (o cambio de partes) que se desean destacar en el contenido de la documentación suministrada con los equipos.



Este símbolo se utiliza para advertir al usuario sobre la presencia de elementos con voltaje peligroso sin protección aislante, que puedan encontrarse dentro de la caja o alojamiento del producto, y que puedan representar riesgo de electrocución.

Precaucion

Leer las instrucciones • Leer y analizar todas las instrucciones de operación y seguridad, antes de usar el equipo.

Conservar las instrucciones • Conservar las instrucciones de seguridad para futura consulta.

Obedecer las advertencias • Todas las advertencias e instrucciones marcadas en el equipo o en la documentación del usuario, deben ser obedecidas.

Evitar el uso de accesorios • No usar herramientas o accesorios que no sean específicamente recomendados por el fabricante, ya que podrían implicar riesgos.

安全须知 • 中文



这个符号提示用户该设备用户手册中有重要的操作和维护说明。



这个符号警告用户该设备机壳内有暴露的危险电压，有触电危险。

注意

阅读说明书 • 用户使用该设备前必须阅读并理解所有安全和使用说明。

保存说明书 • 用户应保存安全说明书以备将来使用。

遵守警告 • 用户应遵守产品和用户指南上的所有安全和操作说明。

避免追加 • 不要使用该产品厂商没有推荐的工具或追加设备，以避免危险。

Warning

Power sources • This equipment should be operated only from the power source indicated on the product. This equipment is intended to be used with a main power system with a grounded (neutral) conductor. The third (grounding) pin is a safety feature, do not attempt to bypass or disable it.

Power disconnection • To remove power from the equipment safely, remove all power cords from the rear of the equipment, or the desktop power module (if detachable), or from the power source receptacle (wall plug).

Power cord protection • Power cords should be routed so that they are not likely to be stepped on or pinched by items placed upon or against them.

Servicing • Refer all servicing to qualified service personnel. There are no user-serviceable parts inside. To prevent the risk of shock, do not attempt to service this equipment yourself because opening or removing covers may expose you to dangerous voltage or other hazards.

Slots and openings • If the equipment has slots or holes in the enclosure, these are provided to prevent overheating of sensitive components inside. These openings must never be blocked by other objects.

Lithium battery • There is a danger of explosion if battery is incorrectly replaced. Replace it only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

Avertissement

Alimentations • Ne faire fonctionner ce matériel qu'avec la source d'alimentation indiquée sur l'appareil. Ce matériel doit être utilisé avec une alimentation principale comportant un fil de terre (neutre). Le troisième contact (de mise à la terre) constitue un dispositif de sécurité : n'essayez pas de la contourner ni de la désactiver.

Déconnexion de l'alimentation • Pour mettre le matériel hors tension sans danger, déconnectez tous les cordons d'alimentation de l'arrière de l'appareil ou du module d'alimentation de bureau (s'il est amovible) ou encore de la prise secteur.

Protection du cordon d'alimentation • Acheminer les cordons d'alimentation de manière à ce que personne ne risque de marcher dessus et à ce qu'ils ne soient pas écrasés ou pincés par des objets.

Réparation-maintenance • Faire exécuter toutes les interventions de réparation-maintenance par un technicien qualifié. Aucun des éléments internes ne peut être réparé par l'utilisateur. Afin d'éviter tout danger d'électrocution, l'utilisateur ne doit pas essayer de procéder lui-même à ces opérations car l'ouverture ou le retrait des couvercles risquent de l'exposer à de hautes tensions et autres dangers.

Fentes et orifices • Si le boîtier de l'appareil comporte des fentes ou des orifices, ceux-ci servent à empêcher les composants internes sensibles de surchauffer. Ces ouvertures ne doivent jamais être bloquées par des objets.

Lithium Batterie • Il a danger d'explosion s'il y a remplacement incorrect de la batterie. Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur. Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

Vorsicht

Stromquellen • Dieses Gerät sollte nur über die auf dem Produkt angegebene Stromquelle betrieben werden. Dieses Gerät wurde für eine Verwendung mit einer Hauptstromleitung mit einem geerdeten (neutralen) Leiter konzipiert. Der dritte Kontakt ist für einen Erdschluß, und stellt eine Sicherheitsfunktion dar. Dieses sollte nicht umgangen oder außer Betrieb gesetzt werden.

Stromunterbrechung • Um das Gerät auf sichere Weise vom Netz zu trennen, sollten Sie alle Netzkabel aus der Rückseite des Gerätes, aus der externen Stromversorgung (falls dies möglich ist) oder aus der Wandsteckdose ziehen.

Schutz des Netzkabels • Netzkabel sollten stets so verlegt werden, daß sie nicht im Weg liegen und niemand darauf treten kann oder Objekte darauf- oder unmittelbar dagegengestellt werden können.

Wartung • Alle Wartungsmaßnahmen sollten nur von qualifiziertem Servicepersonal durchgeführt werden. Die internen Komponenten des Gerätes sind wartungsfrei. Zur Vermeidung eines elektrischen Schocks versuchen Sie in keinem Fall, dieses Gerät selbst öffnen, da beim Entfernen der Abdeckungen die Gefahr eines elektrischen Schlags und/oder andere Gefahren bestehen.

Schlitze und Öffnungen • Wenn das Gerät Schlitze oder Löcher im Gehäuse aufweist, dienen diese zur Vermeidung einer Überhitzung der empfindlichen Teile im Inneren. Diese Öffnungen dürfen niemals von anderen Objekten blockiert werden.

Lithium-Batterie • Explosionsgefahr, falls die Batterie nicht richtig ersetzt wird. Ersetzen Sie verbrauchte Batterien nur durch den gleichen oder einen vergleichbaren Batterietyp, der auch vom Hersteller empfohlen wird. Entsorgen Sie verbrauchte Batterien bitte gemäß den Herstelleranweisungen.

Advertencia

Alimentación eléctrica • Este equipo debe conectarse únicamente a la fuente/tipo de alimentación eléctrica indicada en el mismo. La alimentación eléctrica de este equipo debe provenir de un sistema de distribución general con conductor neutro a tierra. La tercera pata (puesta a tierra) es una medida de seguridad, no puentearla ni eliminarla.

Desconexión de alimentación eléctrica • Para desconectar con seguridad la acometida de alimentación eléctrica al equipo, desenchufar todos los cables de alimentación en el panel trasero del equipo, o desenchufar el módulo de alimentación (si fuera independiente), o desenchufar el cable del receptáculo de la pared.

Protección del cables de alimentación • Los cables de alimentación eléctrica se deben instalar en lugares donde no sean pisados ni apretados por objetos que se puedan apoyar sobre ellos.

Reparaciones/mantenimiento • Solicitar siempre los servicios técnicos de personal calificado. En el interior no hay partes a las que el usuario deba acceder. Para evitar riesgo de electrocución, no intentar personalmente la reparación/mantenimiento de este equipo, ya que al abrir o extraer las tapas puede quedar expuesto a voltajes peligrosos u otros riesgos.

Ranuras y aberturas • Si el equipo posee ranuras o orificios en su caja/alojamiento, es para evitar el sobrecalentamiento de componentes internos sensibles. Estas aberturas nunca se deben obstruir con otros objetos.

Batería de litio • Existe riesgo de explosión si esta batería se coloca en la posición incorrecta. Cambiar esta batería únicamente con el mismo tipo (o su equivalente) recomendado por el fabricante. Desachar las baterías usadas siguiendo las instrucciones del fabricante.

警告

电源 • 该设备只能使用产品上标明的电源。设备必须使用有地线的供电系统供电。第三条线（地线）是安全设施，不能不用或跳过。

拔掉电源 • 为安全地从设备拔掉电源，请拔掉所有设备后或桌面电源的电源线，或任何接到市电系统的电源线。

电源线保护 • 妥善布线，避免被踩踏，或重物挤压。

维护 • 所有维修必须由认证的维修人员进行。设备内部没有用户可以更换的零件。为避免出现触电危险不要自己试图打开设备盖子维修该设备。

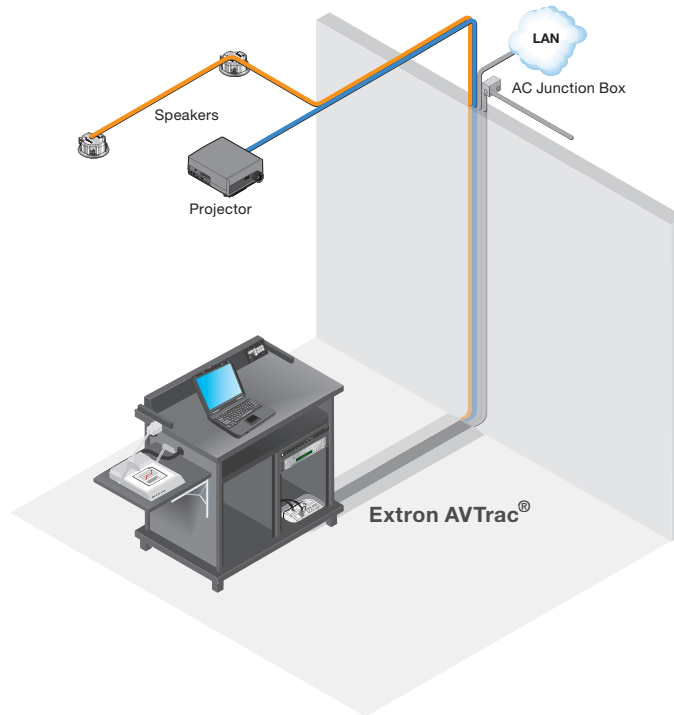
通风孔 • 有些设备机壳上有通风槽或孔，它们是用来防止机内敏感元件过热。不要用什么东西挡住通风孔。

锂电池 • 不正确的更换电池会有爆炸的危险。必须使用与厂家推荐的相同或相近型号的电池。按照生产厂的建议处理废弃电池。

Introduction

Overview

This manual describes the AVTrac® components and provides instructions for installation.



AVTrac Floor System

Low-profile Raceway System

AVTrac is a low-profile raceway system designed to safely and discretely run power, data, and A/V cables from a wall to a table, podium, or other furniture. The raceway system mounts directly onto the concrete floor and underneath the carpet.

AAP Compatible Connectivity Box

The modular enclosure supports up to ten single-space Extron Architectural Adapter Plates (AAPs) with hundreds of connection options creating a fully customizable connectivity solution.

Models with the AC module accommodate up to seven single-space AAPs. (AAPs are sold separately.)

Wheelchair Accessible

The slope of the side and end ramps is less than 1:12 (1 inch of rise for each 12 inches run, approximately 4.8°).

Choice of Finishes

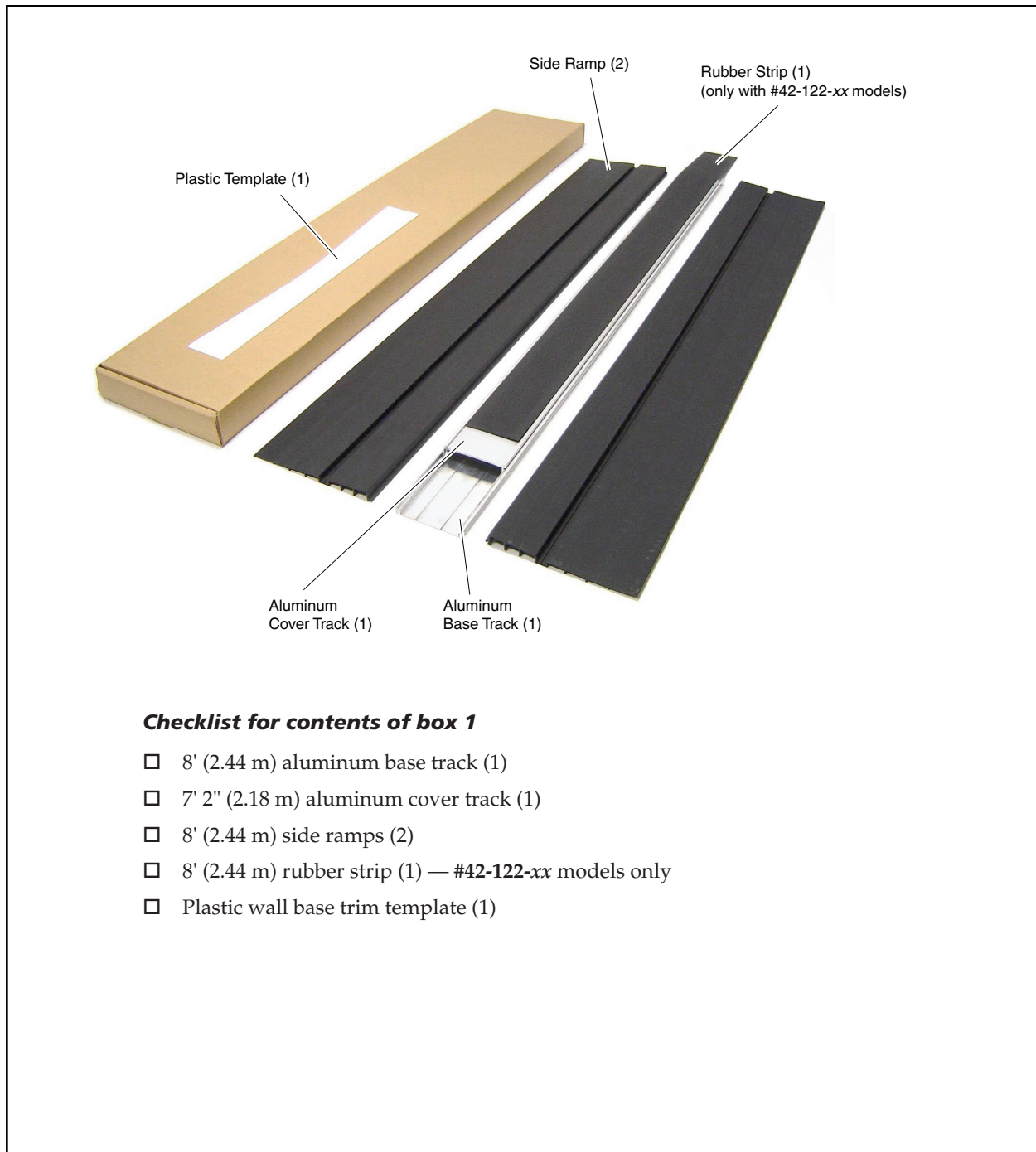
The AVTrac 480C accommodates commercial grade carpet inlay 1/4" to 5/16" (0.6 to 0.8 cm) thickness in the aluminum raceway cap.

The AVTrac 480R accommodates the included black Roppe rubber strip inlay as its top finish.

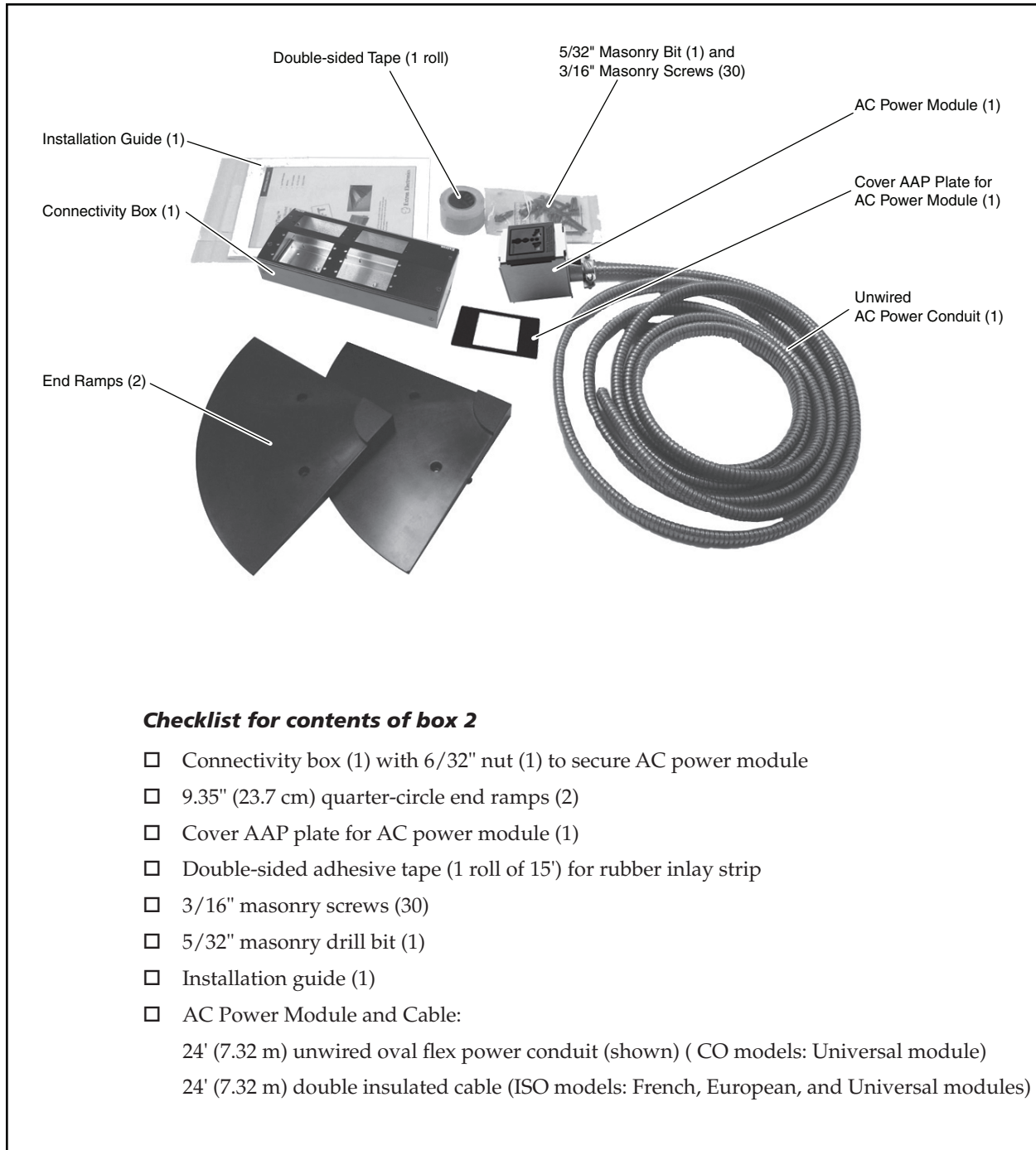
The AVTrac Kit is shipped in two boxes.

- **Box 1** contains the track and ramp components.
- **Box 2** contains the connectivity box, the conduit and accessory components.

Check the contents of each box to ensure all items are present.



Check the contents of each box to ensure all items are present.



Before Getting Started

Planning

AVTrac can be installed before new carpeting is fitted or retrofitted under pre-existing carpet. It can also be installed in new construction before the wall and carpeting is in place. Retrofitting the track in a space with existing carpeting and furniture requires some extra preparation to remove the carpet and prepare the floor for laying the track.

Before installing the AVTrac, determine whether the installation will be in new construction, under pre-existing carpet tiles or under pre-existing carpet rolls, and follow the appropriate installation instructions (see page 7). Read and follow all instructions carefully.

NOTE All structural steps and electrical installation should be performed by qualified personnel in accordance with local and national building codes and/or local and national electrical codes.

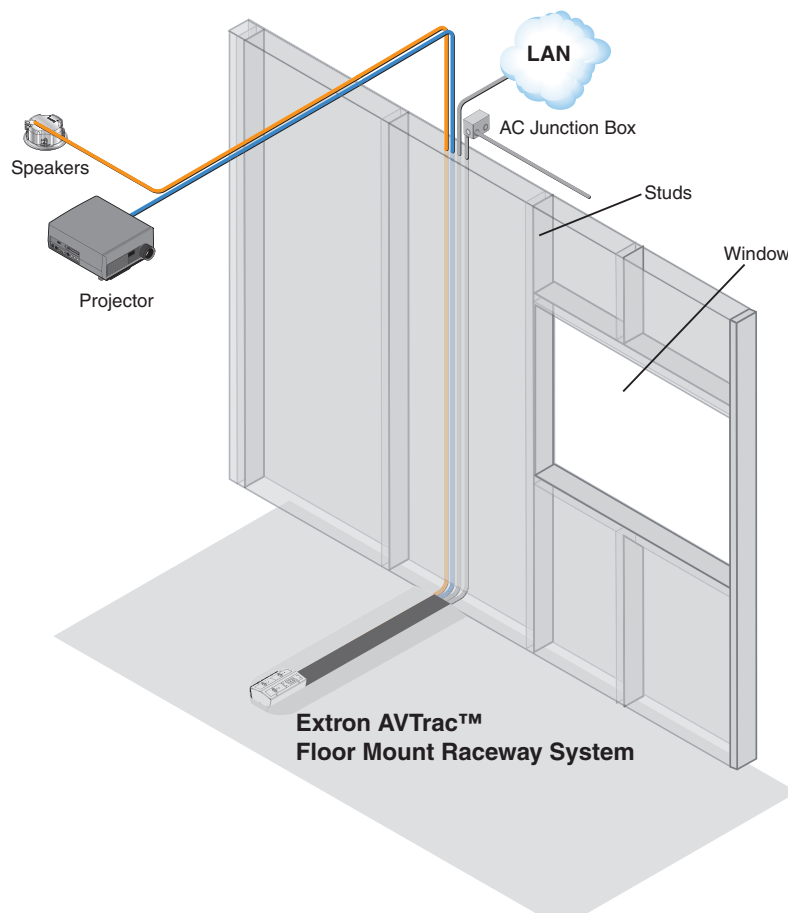
Floor Considerations

AVTrac is designed to be installed only underneath commercial grade carpeting 1/4" to 5/16" (0.6 to 0.8 cm) in thickness. It can be installed under new or pre-existing carpet tile or carpet roll.

AVTrac is not designed to be installed under vinyl composite tile (VCT).

In-Wall Cable Routing Considerations

- Locate a convenient electrical junction box in the wall or ceiling for power. The AC power module is rated at 10 A, maximum, and no fuse is used on the box. *Extron recommends that the AC conduit is connected to a junction box that is wired directly to a 10 A main circuit.*
- If cables are run in walls, the walls should be run in drywall cavities. The wall should be free of windows, studs, pipes, or other obstructions that could hinder cables runs (see the figure below).



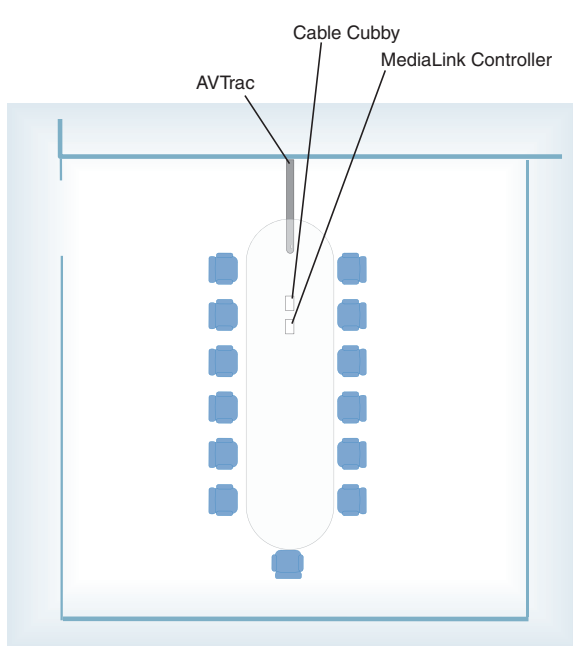
Room Considerations

Determine the A/V requirements for the room. Extron provides a complete range of AAPs that can be purchased separately to provide fully customizable central connectivity.

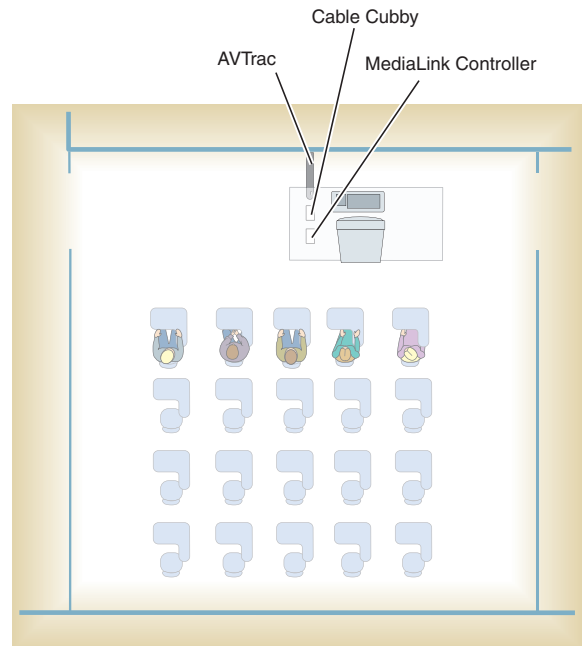
Select the best configuration for existing furniture, equipment, cables and the AVTrac. It may help to mark the position of the track using a marker pen or tape.

The connectivity box must be positioned under a podium or table to avoid creating a tripping hazard. AVTrac can be cut or extended to meet the needs of the room. (For further details, see **step 3-1** on page 9.)

Optional track component extension kits are also available.



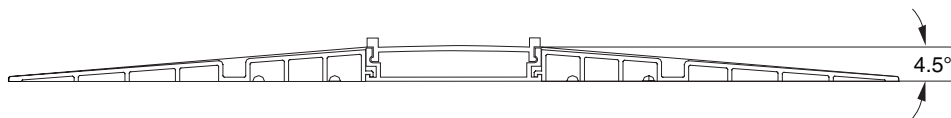
Conference Room



Classroom

Wheelchair Accessibility

The slope and rise of the side and end ramps are less than 1:12 (1 inch of rise for each 12 inches run, approximately 4.5°).



The AVTrac maximum slope is 4.5°

Tools and Equipment Required for Installation

Almost everything you need to install your AVTrac system has been included. You will need some basic tools and materials depending on the facility and requirements.

You can visit www.extron.com for a full range of cables and components for populating the connectivity box.

NOTE *All structural steps and electrical installation should be performed by qualified personnel in accordance with local and national building codes and/or local and national electrical codes.*

Extron recommends the following equipment (not provided) to ensure the AVTrac is properly installed:

Tools:

- Miter saw with blade for cutting metal
- Handsaw for cutting drywall
- Utility knives (box cutters)
- Power drill
- 1/4" or 6 mm bit for drilling metal
- Tin snips (metal shears)
- Tools for terminating cables (if required)
- Phillips head screw driver
- Hex nut driver (1/4" and 5/16")

Equipment/other:

- Tape measure
- Marker pen
- Level
- Fish tape (used for pulling cables through cavity walls)
- Cable ties
- Vacuum cleaner
- Carpet glue
- Safety goggles

By this point you must have decided exactly where the AVTrac will be installed, checked the contents of the kit, and gathered the tools that you will need.

Extron recommends consulting a carpeting expert before removing the carpet.

- 1-1** Determine whether the installation will be in new construction, under pre-existing carpet tiles or under pre-existing carpet rolls, and follow the appropriate instructions.

New Construction

When AVTrac is being placed in a new building, the carpet should not be laid until the track has been installed.

Prelaid Carpet Tiles

For installation of AVTrac under prelaid carpet tiles, peel back the carpet to expose the concrete where the track and side ramps will be positioned (as shown in figure to the right).

Prelaid Carpet Rolls — Peel back Carpet

If AVTrac is being installed in a room that is already fitted with carpet rolls, the ideal solution is to peel back the entire carpet roll(s) covering the area where the track will run.

Prelaid Carpet Rolls — Cut Carpet

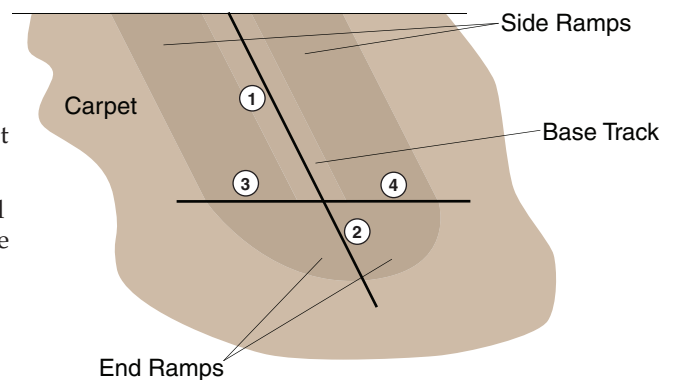
Whenever possible, completely remove the carpet from where the track will be laid. When the positioning of preinstalled furniture makes it impossible to remove existing carpet, the carpet must be cut (see the illustration at right).

- Use tape to mark where the track and ramps will be positioned and make one straight cut ① in the middle of where the base track will run (see the figure to the right). This cut must be the same length as the base track.
- Make three shorter cuts ②, ③, and ④ corresponding to, but about 4" (10.2 cm) longer than the edges of the end ramps. *These cuts must be clean as the carpet needs to be seamed after the AVTrac has been installed.*
- Pull the carpet back to expose the floor where the base track, the side ramps and the end ramps will be secured.

After removing the carpet, make sure that the concrete base is level and structurally sound. Prior to installation, leveling and topping may be needed.



Remove carpet tiles to expose concrete



Cut prelaid carpet roll to expose concrete

NOTE AVTrac is not designed to be installed under vinyl composite tile (VCT).

Installation

Step 2: Wall

This manual shows an AVTrac installation with cables being run inside a drywall cavity. If the cables from the AVTrac system will not be run inside a drywall cavity, ignore this section and go to Step 3 (Track) on the next page.

To run cables from the AVTrac system inside a drywall cavity, follow these instructions:

- 2-1** If necessary, remove the baseboard from the bottom of the wall and mark where the AVTrac will abut the wall.



Mark wall

- 2-2** Using a drill, box cutters and/or a saw, cut a 4" W x 1½" H (10.2 cm x 3.8 cm) hole at the base of the wall.

If there is a metal base stud, use a hand saw or tin snips to cut it at both edges of the hole and bend it back into the hole so that the stud lies flat on the floor. (Use a file to remove any jagged edges that might damage cables.)

The hole will eventually be covered by the baseboard, so it does not have to be perfect.



Cut cable access hole in wall

Installation

Step 3: Track

- 3-1 Measure and cut the track pieces to the desired length.

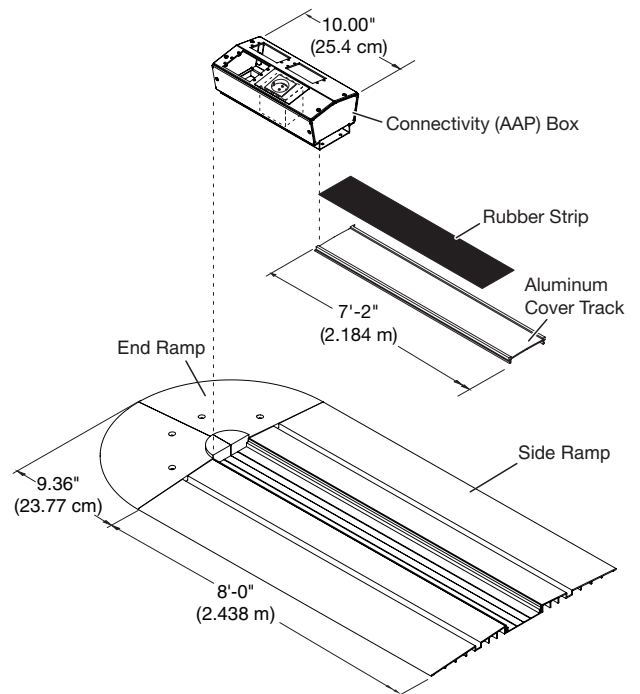
NOTE If the track is to be cut, the base track must be 10" (25.4 cm) longer than the cover track. This is the length of the connectivity box, which sits on the base track but not on the cover track (see figure below right).

The end ramps will add an additional 9.36" (23.8 cm) to the total length of the installed track.

The track should run up to but not enter the hole in the wall.



Cut aluminum base track



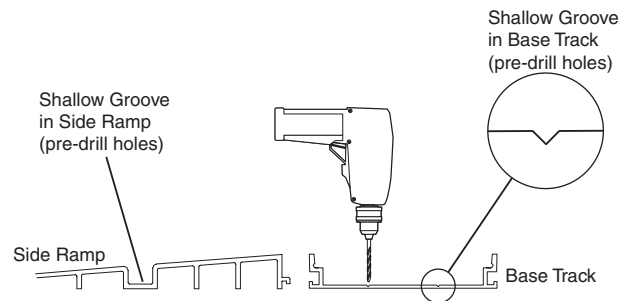
Measure and cut track

Installation

Step 3: Track, cont'd

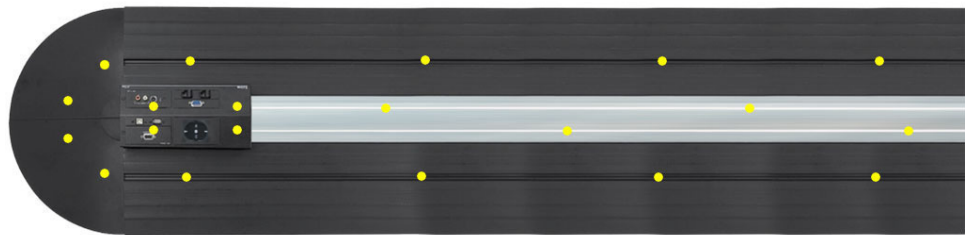
- 3-2 Drill mounting holes in the shallow grooves of the base track and side ramps using a 1/4" or 6 mm bit for drilling metal (not supplied).

NOTE Mounting holes must be a maximum of 3' (91 cm) apart and one must be within 6" (15.2 cm) of each end of the track.



Pre-drill holes in track and ramps

To ensure that all components are securely attached to the floor, Extron recommends that the predrilled holes should closely follow the pattern shown in this figure.



Positions of mounting holes

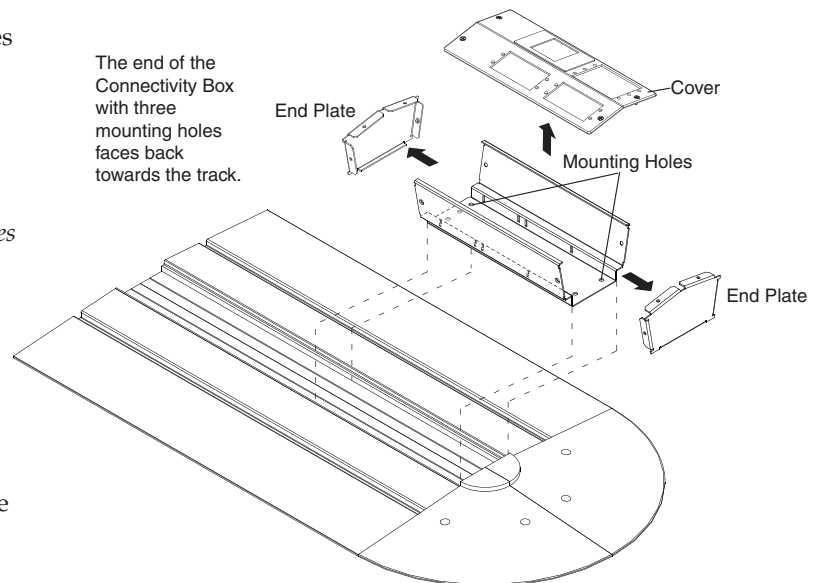
- 3-3 Remove the cover panel and end plates from the connectivity box.

Examine the bottom of the connectivity box: one end has two mounting holes (one in each corner), the other end has three mounting holes (one in each corner and one in the center). The end with three holes faces back toward the track.

Align the end of the box with two mounting holes with the end of the base track. Mark where the mounting holes in the bottom of the box lie over the base track.

Using a 1/4" or 6 mm bit for drilling metal (not supplied), drill at least three mounting holes in the base track to secure the connectivity box.

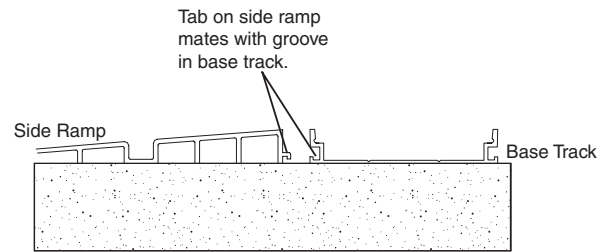
To fully assemble the track and attach it securely to the floor (as shown in the figure at right), follow the instructions on the next page.



Pre-drill holes to secure connectivity box

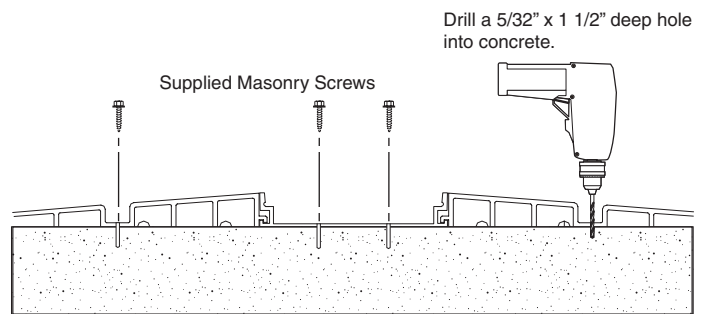
3-4 Lay the base track on the floor in the prepared location.

Mate the tabs in the side ramps with the grooves in the base track, and place the end ramps in position at the end of the track furthest from the wall.



Mate side ramp to base track

3-5 Using the provided 5/32" masonry bit, drill 1 1/2" (3.8 cm) deep pilot holes into the concrete through the predrilled mounting holes in the track and ramps.



Drill into concrete and screw down track

3-6 With the provided masonry screws, secure the track and ramps to the floor.

NOTE Do not use the holes that were drilled to secure the connectivity box in step 3-3.



Screw side ramps to floor

Installation

Step 4: Connectivity Box

By this point, the base track, side ramps and end ramps must be securely fastened to the floor.

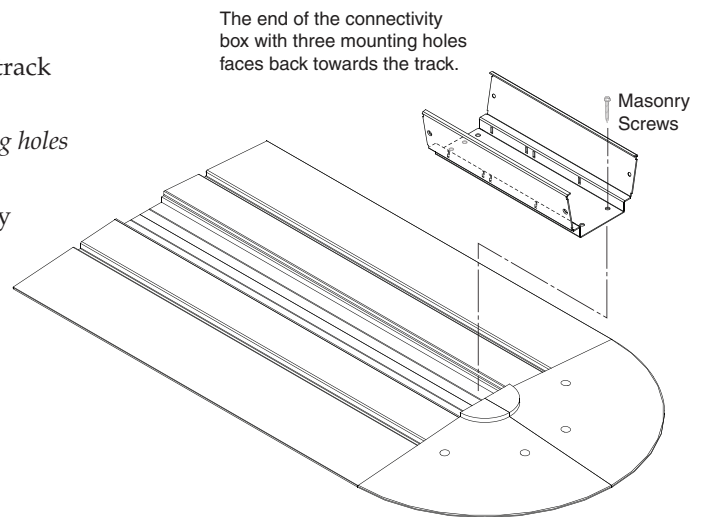
To attach the connectivity box to the base track, follow these instructions:

- 4-1** Reposition the connectivity box, in the correct orientation, over the pre-drilled holes in the base track (see instruction 3-3).

The end of the connectivity box that has three mounting holes faces back towards the track.

Using at least three of the provided 3/16" masonry screws, secure the box to the track and floor.

Remove all dust with a vacuum cleaner.



Installation

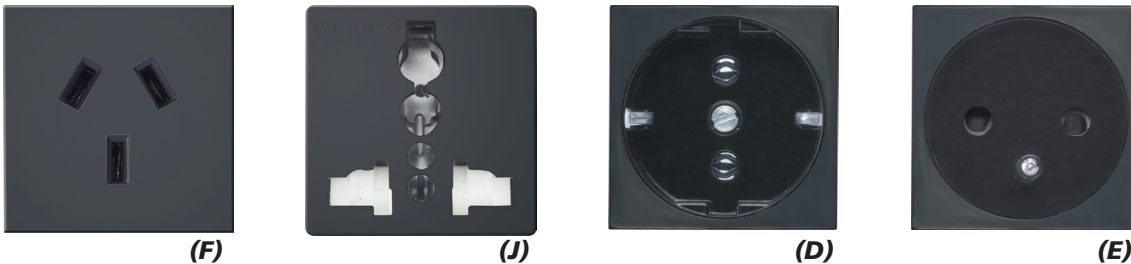
Step 5: Power Module

By this point, the connectivity box must be securely fastened to the floor.

If the AVTrac system does not include the AC power module, ignore this section. To attach the AC power module, follow these instructions:

WARNING Switch off all electrical power before connecting the AC conduit to a junction box, and keep power off until installation is complete.

CAUTION All electrical installation should be performed by qualified personnel in accordance with local and national electrical codes.



Receptacles for the AC power modules are available in Australian (F), universal (J), central European (D), and French (E) models. The Australian and Universal models are provided with 24' of metal conduit, without wires (CO models). The Central European, French, and Universal models are provided with 24' of double insulated cable (ISO models).

NOTE Some plug types are not fully compatible with the Universal Receptacle. For more details refer to the Universal AC Outlet Compatibility Guide on page 22.

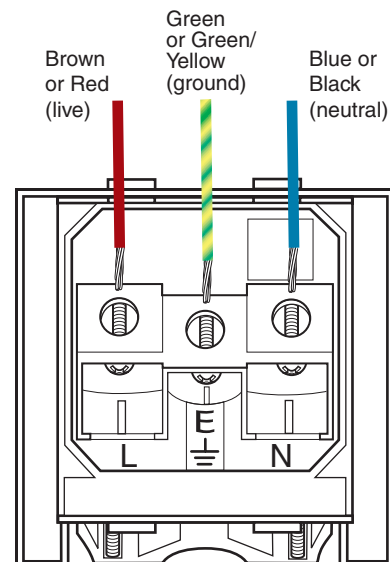
5-1 Connect wires to models with the unwired metal conduit (Australian and Universal CO models) by threading wires through the conduit using fish tape or similar device. Remove 1/8" (3 mm) of insulation from both ends of each wire.

Loosen the holding screws in the AC receptacle.

Insert the wire into appropriate hole and tighten the holding screws.

Snap the AC receptacle into power module.

WARNING The blue or black wire must be connected to the neutral slot, the brown or red wire must be connected to the live slot, and the solid green or green and yellow striped wire must be connected to the ground.



Connect wires to AC receptacle

Installation

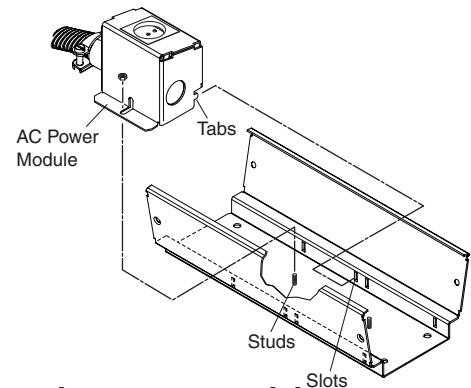
Step 5: Power Module cont'd

- 5-2 The AC power module must be positioned under the triple AAP socket that is closest to the track. Seat the power module on the stud in the connectivity box.

Slide the power module side tabs into the slots on the side of the connectivity box.

Secure the module to the stud on the connectivity box by hand tightening the provided 6/32" nut.

NOTE The illustration at right shows the Central European AC power module. Australian, French, and Universal models are also available.



Attach AC power module

- 5-3 Extron recommends the circuit be attached to a junction box that is directly wired to the main circuit. The AC power module does not have a fuse and is rated at 10 A, maximum.

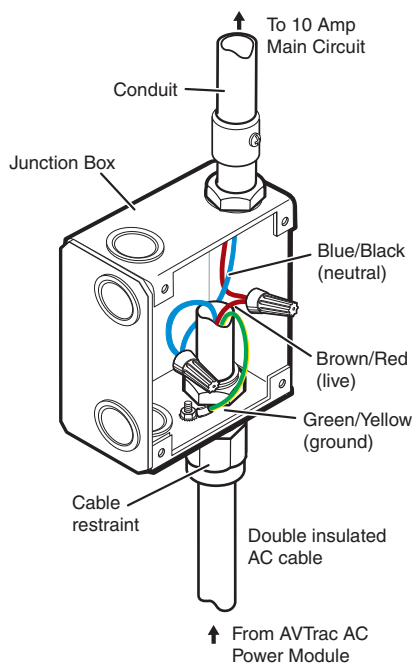
Feed the fish tape from the junction box, through the wall cavity or raceway to the point where the AC conduit or double insulated cable from the AVTrac enters the wall or raceway.

Attach the end of the conduit or cable securely to the hook on the fish tape and rewind the tape, drawing the cable behind it. If necessary, one person can feed the conduit or cable into the wall or channel while a second pulls the fish tape from the other end.

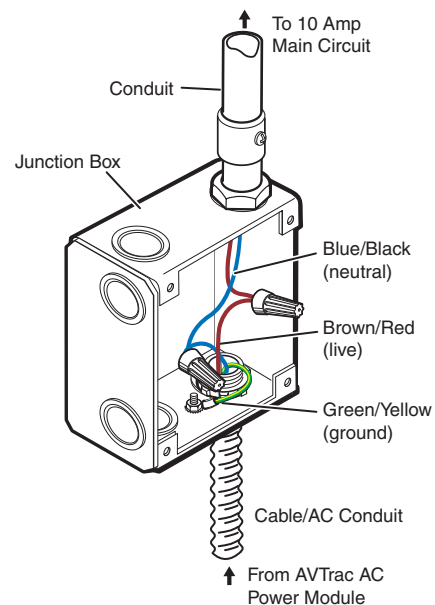
Connect the wires as shown in the figures below:



Run AC conduit through wall cutout



Connect double isolated cable to junction box



Connect AC conduit to junction box

Installation

Step 6: AAPs

At this point, the track, ramps and connectivity box must all be securely in place, and the AC power module must be attached to the connectivity box and connected to an AC junction box.

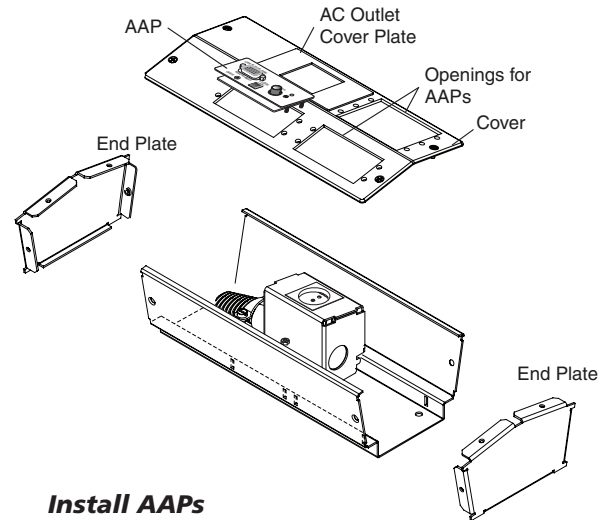
To attach the Architectural Adapter Plates (AAPs), follow these instructions:

- 6-1** Select up to seven AAPs to fill the remaining spaces in the cover of the connectivity box.

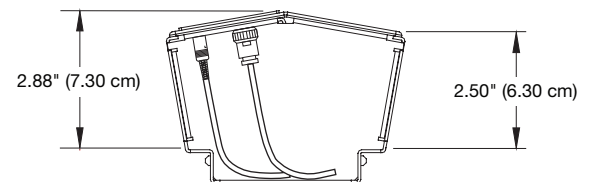
In models without the AC power module, fill all ten spaces of AAPs.

NOTE Extron AAPs must be purchased separately.

NOTE To prevent bending of cables, place the AAP with the greatest depth requirement (including cables) in the AAP slot closest to the center ridge of the connectivity box.



Install AAPs



- 6-2** Use fish tape to run the cables from the connectivity box through the wall or raceway to the appropriate appliances (as described in section 5-3).

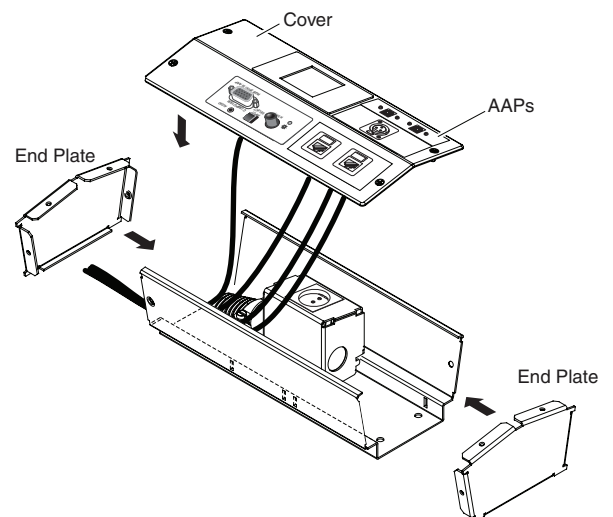
Attach the cables to the AAPs as described in the installation guide for each AAP module and secure the AAP to the cover of the connectivity box, using the screws provided.

Test the power and signals to the AAPs.



Run cable to AAPs

- 6-3** Reattach the end plates and cover panel.



Installation

Step 7: Finishing Up

At this point, the track and connectivity box must be secured to the floor, the electrical power must be connected, and the AAP sockets must be populated.

To complete the installation of the AVTrac, follow these instructions:

- 7-1 Lay the cables and power cords flat against the base track. If necessary, feed excess cable back into the wall.



Ensure cables lay flat

- 7-2 Snap the cover track onto the base track.



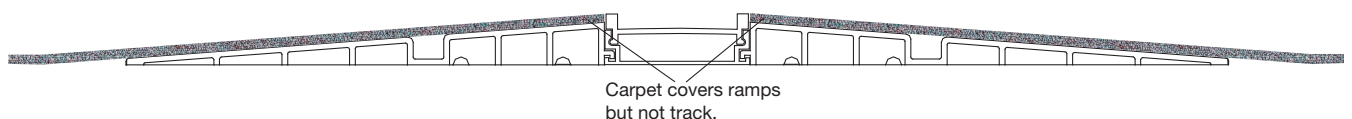
Fit cover track

- 7-3 Before cutting and gluing carpet, remove all dust and debris with a vacuum cleaner.
Cut the carpet or carpet tiles so that they run up to but do not cover the aluminum track (see the diagram below).

NOTE *Cut the carpet to abut the edge of the cover track. Do not align the cuts to the edge of the ramps as this will leave a gap between the end of the carpet and the cover track.*



Cut carpet



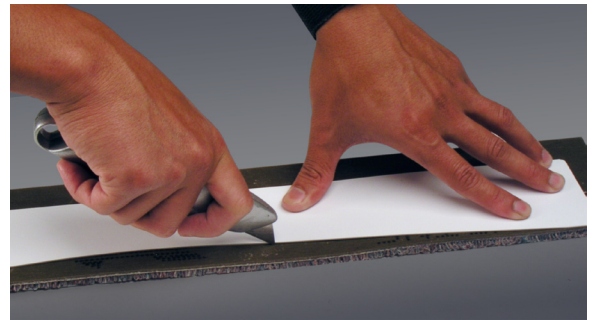
7-4 Glue or tape the carpet to the floor and side ramps.

NOTE Do not use the supplied tape to attach the carpet to the ramp. The tape is intended only for the attaching the rubber inlay strip to the cover track.



Refit carpet

7-5 Using the provided template, trim the wall baseboard to fit snugly around the track. Attach the baseboard to the wall.



Use template to cut base board



Reattach base board to wall

7-6 For 42-122-xx models, attach the provided rubber strip to the cover track raceway using double-sided adhesive tape (provided).
For 42-121-xx models, cut a strip of the finished carpeting and glue it to the cover track raceway.



Attach carpet tile to track raceway

The installed AVTrac safely and discretely runs power, data, and A/V cables from a wall to a table, podium, or other furniture.



AVTrac installed

Reference Material

Specifications

General

Power (pass-through).....	250 VAC, 50/60 Hz, 10 A (max.)
Mounting options	
Track system (track and ramps)	Mountable on base flooring, beneath the finished carpet
Connectivity box	Mountable through the metal track, onto base flooring
Optional AAP plates/devices	Mountable in the two double-space and two triple-space Architectural Adapter Plate (AAP) openings in the connectivity box
Enclosure type	Metal track base and top, metal connectivity box and cover, plastic ramps
Enclosure dimensions: see diagrams on opposite page.	
Track system	
End ramps	0.67" (1.7 cm) H x 9.36" (23.8 cm) radius, approximately 4.5° slope
Side ramps.....	0.67" (1.7 cm) H x 7.50" (19.0 cm) W on either side of track x 96" (243.8 cm) L, approximately 4.5° slope
AVTrac 480C track base and top	1.03" H x 3.70" W x 96" L (2.6 cm H x 9.4 cm W x 243.8 cm L)
AVTrac 480R track base and top	0.95" H x 3.70" W x 96" L (2.4 cm H x 9.4 cm W x 243.8 cm L)
Connectivity box	3.55" (9.0 cm) H x 10.00" (25.4 cm) W x 4.91" (12.5 cm) D
Product weight	
Parts in package 1 of 2.....	16.9 lbs (7.7 kg)
Parts in package 2 of 2.....	10.6 lbs (4.8 kg)
Shipping weight	
Package 1 of 2	22 lbs (10 kg)
Package 2 of 2	13 lbs (6 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Listings.....	CE
Warranty.....	3 years parts and labor

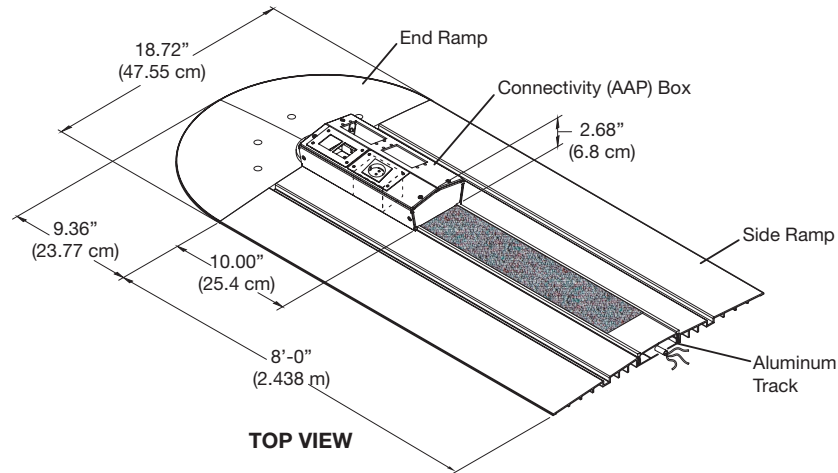
NOTE Specifications are subject to change without notice.

All trademarks mentioned in this manual are the properties of their respective owners.

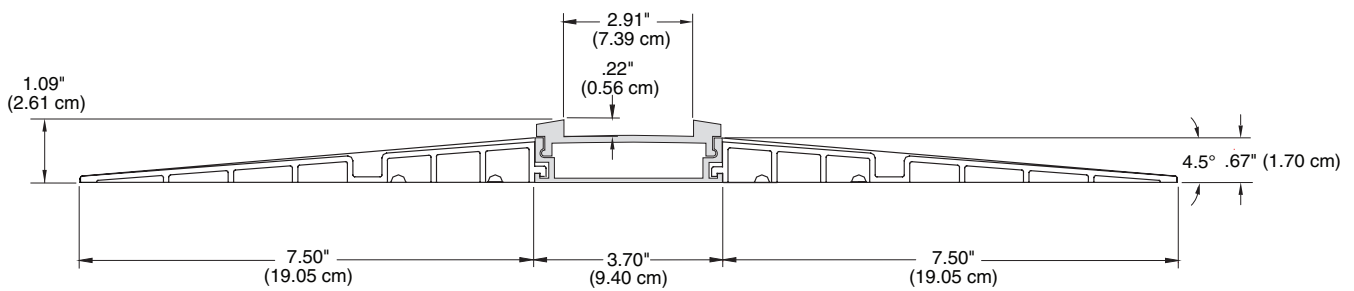
Reference Material,

cont'd

AVTrac 480C

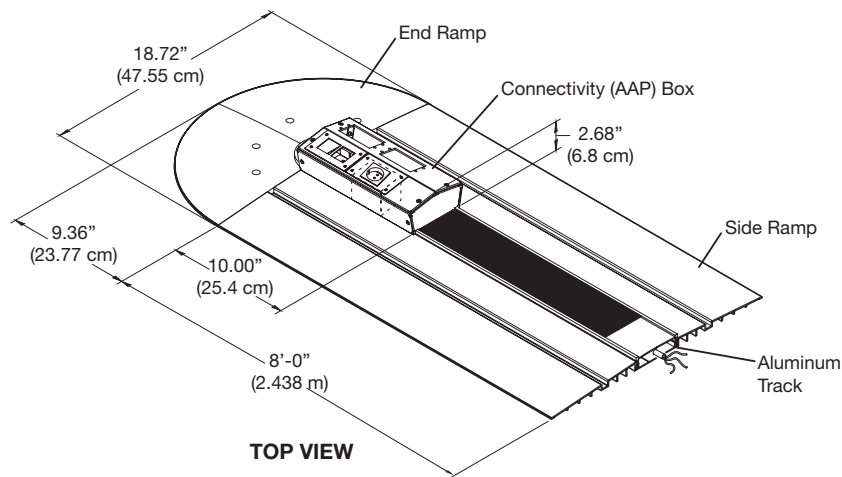


TOP VIEW

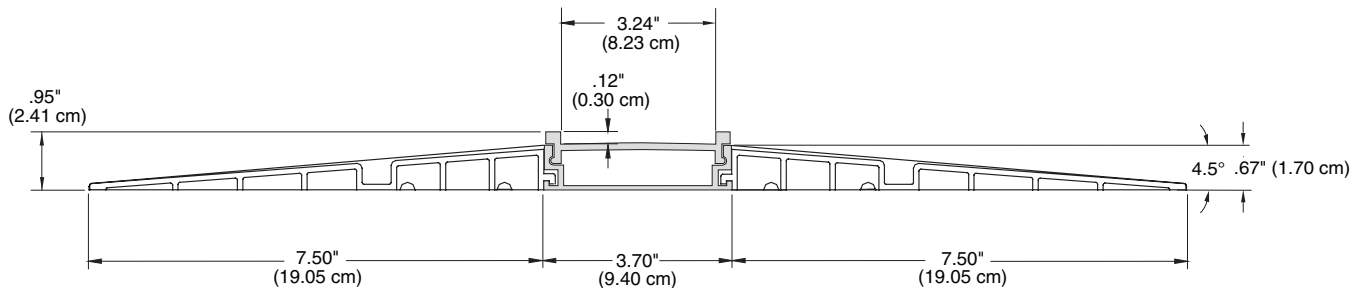


BACK VIEW

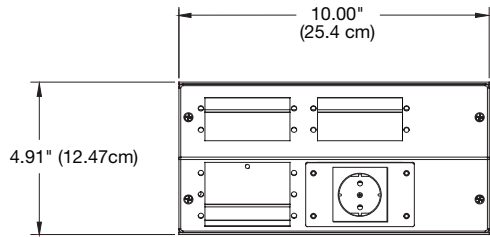
AVTrac 480R



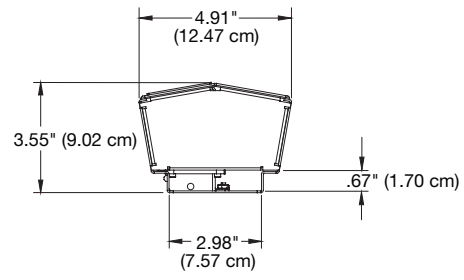
TOP VIEW



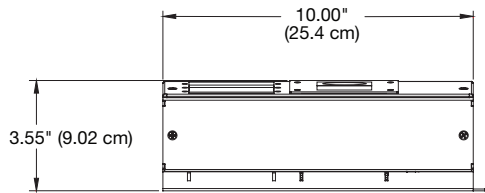
BACK VIEW



TOP VIEW



END VIEW



SIDE VIEW

Connectivity box

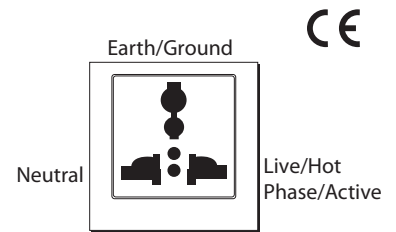
Universal AC Compatibility Guide

The Extron Universal AC Outlet allows a number of different AC plugs to be used in the AVTrac™, HSA, and Cable Cubby™ devices. Before using the device, refer to the table on this card to see if your plug type is compatible with the Universal AC Outlet.

CAUTION

In some countries there may be polarity differences. To avoid possible damage to a device, check the polarity of your power supply and that of the device before plugging it in to the Universal AC Outlet and switching it on.

Some devices require they be grounded. Use caution with plugs that do not allow grounding (see table) when used with the Universal AC Outlet.



Region	UK	India	Italy	Europlug (2-pin)	Denmark	China
Plug Type						
Fit	✓	✓	✓	✓	✓	✓*
*Safety Note						Fit not perfect
Socket Type						

Region	Switzerland	Israel	USA	Central Europe (Schuko)	France	South Africa
Plug Type			2-pin 3-pin			
Fit	✓*	✓*	✓*	✓*	✓*	✗
*Safety Note	Polarity is reversed	Polarity is reversed	Polarity is reversed	No grounding tabs for Schuko plug on Universal AC Outlet	No grounding tabs for Schuko plug on Universal AC Outlet	Does not fit outlet
Socket Type						

Key:

✓ = Fully compatible.

✓* = Plug fits but see Safety Notes before use.

✗ = Incompatible. Plug does not fit or is not compatible.

Optional Accessories

Please consult the Extron Web site (www.Extron.com) or catalog for a complete description of each item.

Track Accessories

Accessory	Part Number
AVTrac 4' Track Extension Kit for Carpet Inlay	70-645-04
AVTrac 4' Track Extension Kit for Rubber Inlay	70-646-04
AVTrac Rough-In Adapter	70-781-01
AVTrac Wall Trim Plate	70-782-01
AVTrac Raceway Transition (Wiremold)	70-783-01
AVTrac Raceway Transition (Euro Channel)	70-783-11

Active AAPs

AAP	Part Number
VTT 001 — VGA Twisted Pair Transmitter	70-258-11
MTP T AV AAP — Mini Twisted Pair S-video and Stereo Audio Transmitter	70-361-22
MTP T SVA AAP — Mini Twisted Pair S-video and Stereo Audio Transmitter	70-362-22
Extender AAP— VGA-QXGA Line Driver with Audio	70-147-12
PVT CV AAP — Composite Video and Stereo Audio Twisted Pair Transmitter	70-579-12
PVT RGB AAP — RGB Video and Stereo Audio Twisted Pair Transmitter	70-580-12
CVEQ1 AAP — Composite Video and Audio Line Driver with Video Gain and Equalization	70-146-12
Active Audio AAP — Dual Audio Buffer	70-110-13

Passive AAPs

AAP	Part Number
One 15-pin HD Female to Female Gender Changer and One 3.5 mm Stereo Mini Jack to Solder Tabs	70-101-73
One 15-pin HD Female to 5 BNC pigtail and One 3.5 mm Barrel AAP	70-551-71
One RJ-11 to Terminal Post and One RJ-45 Female to Female Barrel	70-100-12
One USB A Female to Female Barrel and One USB B Female to Female Barrel	70-423-11
Two RCA Female to Captive Screw Terminal — audio, red/white; one RCA Female to Female Barrel — video, yellow; one S-Video Female to Female Barrel	70-330-11
Two XLR 3-pin Female to Solder Cups	70-103-14
One 9-pin D Female to Female Gender Changer	70-102-11

Extron's Warranty

Extron Electronics warrants this product against defects in materials and workmanship for a period of three years from the date of purchase. In the event of malfunction during the warranty period attributable directly to faulty workmanship and/or materials, Extron Electronics will, at its option, repair or replace said products or components, to whatever extent it shall deem necessary to restore said product to proper operating condition, provided that it is returned within the warranty period, with proof of purchase and description of malfunction to:

**USA, Canada, South America,
and Central America:**

Extron Electronics
1001 East Ball Road
Anaheim, CA 92805, USA

Asia:

Extron Electronics, Asia
135 Joo Seng Road, #04-01
PM Industrial Bldg.
Singapore 368363

Europe, Africa, and the Middle East:

Extron Electronics, Europe
Beeldschemweg 6C
3821 AH Amersfoort
The Netherlands

Japan:

Extron Electronics, Japan
Kyodo Building
16 Ichibancho
Chiyoda-ku, Tokyo 102-0082
Japan

This Limited Warranty does not apply if the fault has been caused by misuse, improper handling care, electrical or mechanical abuse, abnormal operating conditions or non-Extron authorized modification to the product.

If it has been determined that the product is defective, please call Extron and ask for an Applications Engineer at (714) 491-1500 (USA), 31.33.453.4040 (Europe), 65.383.4400 (Asia), or 81.3.3511.7655 (Japan) to receive an RA# (Return Authorization number). This will begin the repair process as quickly as possible.

Units must be returned insured, with shipping charges prepaid. If not insured, you assume the risk of loss or damage during shipment. Returned units must include the serial number and a description of the problem, as well as the name of the person to contact in case there are any questions.

Extron Electronics makes no further warranties either expressed or implied with respect to the product and its quality, performance, merchantability, or fitness for any particular use. In no event will Extron Electronics be liable for direct, indirect, or consequential damages resulting from any defect in this product even if Extron Electronics has been advised of such damage.

Please note that laws vary from state to state and country to country, and that some provisions of this warranty may not apply to you.

Quick Installation Checklist

Installation of the AVTrac can be divided into six main sections:

Step 1 — Before Getting Started

- Decide where the Track will be placed (pages 4 and 5) and, if necessary, prepare the site.
- Open the two boxes containing the AVTrac kit and identify all the items provided (pages 2 and 3).
- Gather any additional tools needed for installation (page 6).

Step 2 — Install Track

- Remove existing carpeting (page 7).
- If cables will be run through a drywall cavity, cut a hole in drywall (page 8).
- Measure and cut track pieces (page 9).
- Secure the track to the floor (pages 10 and 11).

Step 3 — Install Connectivity Box

- Remove the top cover and end plates from connectivity box (page 10) and place the box on the track (page 12).
- Secure the connectivity box to the track and floor (page 12).

Step 4 — Install AC Power Module

- If necessary, wire the AC power receptacle (page 13).
- Seat and secure AC power module in connectivity box (page 14).
- Run AC conduit and connect to junction box (page 14).

Step 5 — Install Architectural Adapter Plates

- Install AAPs in connectivity box cover panel (page 15).
- Run and connect cables to the AAPs (page 15).
- Reattach the end plates and cover panel (page 15).

Step 6 — Finishing Up

- Snap on cover track (page 16).
- Cut and glue carpet to side and end ramps (pages 16 and 17).
- Trim wall baseboards and apply carpet or rubber strip finish to cover track raceway (page 17).

Extron **USA - West**
Headquarters
+800.633.9876
Inside USA / Canada Only
+1.714.491.1500
+1.714.491.1517 FAX

Extron **USA - East**
+800.633.9876
Inside USA / Canada Only
+1.919.863.1794
+1.919.863.1797 FAX

Extron **EMEA**
+800.3987.6673
Inside Europe Only
+31.33.453.4040
+31.33.453.4050 FAX

Extron **Asia**
+800.7339.8766
Inside Asia Only
+65.6383.4400
+65.6383.4664 FAX

Extron **Japan**
+81.3.3511.7655
+81.3.3511.7656 FAX

Extron **China**
+400.883.1568
Inside China Only
+86.21.3760.1568
+86.21.3760.1566 FAX

Extron **Middle East**
+971.4.2991800
+971.4.2991880 FAX

© 2008 Extron Electronics. All rights reserved.